the box pro

Pyrit 10, 12, 15

passive 2 way
full-range speaker

th•mann
MUSIC IS OUR PASSION

user manual

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1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used in a sound reinforcement system. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

CAUTION!

Possible hearing damage

The device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use sufficient ear protectors.

CAUTION!

Risk of injury due to heavy weight

Due to the heavy weight of the device, at least two persons are required for transport and installation.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

3 Features

The device is particularly suitable for use in churches, conference rooms and multi-purpose halls.

Special features of the device:

- Item no. 299642: 10" woofer, 1.4" tweeter
  Item no. 299643: 12" woofer, 1.7" tweeter
  Item no. 299646: 15" woofer, 1.7" tweeter
- 2 × NL4 connections
- M8 rigging points
- Built-in feet for monitor applications
- Double pole mounting flange (vertical and 5° inclination)
- Ceiling mountable (with optional mounting bracket)
- Powder-coated front grille

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

You can install the device on the wall, ceiling or floor.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

CAUTION!

Risk of injury due to heavy weight

Due to the heavy weight of the device, at least two persons are required for transport and installation.

NOTICE!

Possible property damage by magnetic fields

Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.

NOTICE!

Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

4.1 Tips on handling speakers

We recommend you to set up the speakers in a way, that their sound signals can reach the audience unobstructedly.

Always use high grade cables to connect your equipment. Otherwise you won't reach maximum sound quality.

For optimum results both impedance and power handling of the speakers must match the requirements of the amplifier. Always follow the technical specifications of all equipment involved!

The overall impedance of the connected loudspeakers must not deceed the minimum output impedance of the amp. The amps max. RMS output power should be 50 % above the power handling capacity of the connected speakers.

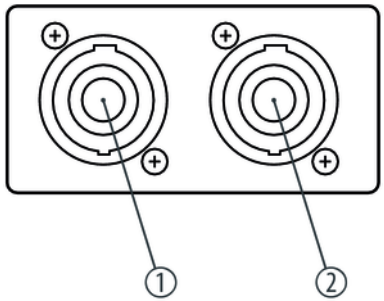
If you notice distortion during operation, either the amp or the speaker is overloaded. This may permanently damage the amp or the speaker. Always reduce the volume as soon as you notice distortion.

4.2 Speaker rigging

For rigging the speaker box on special mounting devices, M8 threads are flush-mounted on top, bottom and sides of the box. You can insert screw eyes into these threads. Check for secure connection of the screw eyes to the box, before rigging the box.

4.3 NL4 connections

On the back of the unit are the two NL4 connectors.

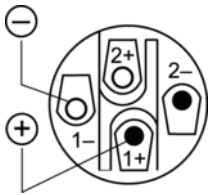


1, 2	NL4 connectors wired in parallel

One connector is used to connect the device to the signal source, the other is used to connect an additional speaker of the same type.

NL4 mounting connector for speaker connection

The drawing alongside shows the pin assignment of the lockable NL4 mounting connectors.



5 Technical specifications

	Pyrit T10, item no. 299642	Pyrit T12, item no. 299643	Pyrit T15, item no. 299646
System	Passive 2-way full-range speaker box	Passive 2-way full-range speaker box	Passive 2-way full-range speaker box
Speakers	1 × 10" woofer	1 × 12" woofer	1 × 15" woofer
	Titan compression driver for 1 × 1.4" tweeter	Titan compression driver for 1 × 1.7" tweeter	Titan compression driver for 1 × 1.7" tweeter
Frequency response (–3 dB)	55 Hz … 20 kHz	50 Hz … 20 kHz	45 Hz … 20 kHz
Power handling	250 W (RMS)	300 W (RMS	350 W (RMS)
	1000 W (Peak)	1200 W (Peak)	1400 W (Peak)
Sound pressure level	122 dB / 1 m (max.)	127 dB / 1 m (max.)	128 dB / 1 m (max.)
Sensitivity	93 dB (1 W / 1 m)	97 dB (1 W / 1 m)	97 dB (1 W / 1 m)
Impedance	8 Ω	8 Ω	8 Ω

	Pyrit T10, item no. 299642	Pyrit T12, item no. 299643	Pyrit T15, item no. 299646
Dispersion angle (V × H)	60° × 90°	60° × 90°	60° × 90°
Dimensions (W × H × D)	306 mm × 516 mm × 238 mm	368 mm × 630 mm × 349 mm	460 mm × 780 mm × 396 mm
Weight	13.2 kg	20 kg	26.8 kg

6 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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